Scott B Reeder

List of Publications by Year
in descending order

346 papers	20,933 citations	13099 68 h-index	12946 131 g-index
353 all docs	353 docs citations	353 times ranked	15229 citing authors

#	Article	IF	Citations
1	Measurement of signalâ€toâ€noise ratios in MR images: Influence of multichannel coils, parallel imaging, and reconstruction filters. Journal of Magnetic Resonance Imaging, 2007, 26, 375-385.	3.4	809
2	Iterative decomposition of water and fat with echo asymmetry and least-squares estimation (IDEAL): Application with fast spin-echo imaging. Magnetic Resonance in Medicine, 2005, 54, 636-644.	3.0	615
3	Quantitative assessment of liver fat with magnetic resonance imaging and spectroscopy. Journal of Magnetic Resonance Imaging, 2011, 34, 729-749.	3.4	613
4	Gadolinium deposition in the brain: summary of evidence and recommendations. Lancet Neurology, The, 2017, 16, 564-570.	10.2	600
5	Multiecho waterâ€fat separation and simultaneous R estimation with multifrequency fat spectrum modeling. Magnetic Resonance in Medicine, 2008, 60, 1122-1134.	3.0	590
6	Tagged MR imaging in a deforming phantom: photographic validation.. Radiology, 1994, 190, 765-769.	7.3	459
7	Magnitude and Time Course of Microvascular Obstruction and Tissue Injury After Acute Myocardial Infarction. Circulation, 1998, 98, 1006-1014.	1.6	453
8	Multicoil Dixon chemical species separation with an iterative least-squares estimation method. Magnetic Resonance in Medicine, 2004, 51, 35-45.	3.0	449
9	Fat quantification with IDEAL gradient echo imaging: Correction of bias from T₁ and noise. Magnetic Resonance in Medicine, 2007, 58, 354-364.	3.0	418
10	Proton density fatâ€fraction: A standardized mrâ€based biomarker of tissue fat concentration. Journal of Magnetic Resonance Imaging, 2012, 36, 1011-1014.	3.4	385
11	Multiecho reconstruction for simultaneous waterâ€fat decomposition and T2* estimation. Journal of Magnetic Resonance Imaging, 2007, 26, 1153-1161.	3.4	366
12	Quantitative assessment of liver fat with magnetic resonance imaging and spectroscopy. Journal of Magnetic Resonance Imaging, 2011, 34, 729-749.	3.4	359
13	Quantification of Hepatic Steatosis with T1-independent, T2*-corrected MR Imaging with Spectral Modeling of Fat: Blinded Comparison with MR Spectroscopy. Radiology, 2011, 258, 767-775.	7.3	345
14	Waterâ€“fat separation with IDEAL gradient-echo imaging. Journal of Magnetic Resonance Imaging, 2007, 25, 644-652.	3.4	300
15	Noninvasive, Quantitative Assessment of Liver Fat by MRIâ€PDFF as an Endpoint in NASH Trials. Hepatology, 2018, 68, 763-772.	7.3	299
16	Fat and water magnetic resonance imaging. Journal of Magnetic Resonance Imaging, 2010, 31, 4-18.	3.4	291
17	Practical approaches to the evaluation of signal-to-noise ratio performance with parallel imaging: Application with cardiac imaging and a 32-channel cardiac coil. Magnetic Resonance in Medicine, 2005, 54, 748-754.	3.0	274
18	Quantification of Liver Fat with Magnetic Resonance Imaging. Magnetic Resonance Imaging Clinics of North America, 2010, 18, 337-357.	1.1	260

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19	Effects of refocusing flip angle modulation and view ordering in 3D fast spin echo. Magnetic Resonance in Medicine, 2008, 60, 640-649.	3.0	239
20	Linearity, Bias, and Precision of Hepatic Proton Density Fat Fraction Measurements by Using MR Imaging: A Meta-Analysis. Radiology, 2018, 286, 486-498.	7.3	225
21	Quantification of hepatic steatosis with MRI: The effects of accurate fat spectral modeling. Journal of Magnetic Resonance Imaging, 2009, 29, 1332-1339.	3.4	221
22	Quantification of liver iron with MRI: State of the art and remaining challenges. Journal of Magnetic Resonance Imaging, 2014, 40, 1003-1021.	3.4	208
23	Influence of multichannel combination, parallel imaging and other reconstruction techniques on MRI noise characteristics. Magnetic Resonance Imaging, 2008, 26, 754-762.	1.8	199
24	Field map estimation with a region growing scheme for iterative 3-point water-fat decomposition. Magnetic Resonance in Medicine, 2005, 54, 1032-1039.	3.0	195
25	CramÃ©r-Rao bounds for three-point decomposition of water and fat. Magnetic Resonance in Medicine, 2005, 54, 625-635.	3.0	194
26	T₁ independent, T₂* corrected MRI with accurate spectral modeling for quantification of fat: Validation in a fatâ€waterâ€SPIO phantom. Journal of Magnetic Resonance Imaging, 2009, 30, 1215-1222.	3.4	191
27	In vivo measurement of T*2 and field inhomogeneity maps in the human heart at 1.5 T. Magnetic Resonance in Medicine, 1998, 39, 988-998.	3.0	183
28	T₁ independent, T₂[*] corrected chemical shift based fatâ€“water separation with multiâ€peak fat spectral modeling is an accurate and precise measure of hepatic steatosis. Journal of Magnetic Resonance Imaging, 2011, 33, 873-881.	3.4	183
29	Accuracy of Liver Fat Quantification With Advanced CT, MRI, and Ultrasound Techniques: Prospective Comparison With MR Spectroscopy. American Journal of Roentgenology, 2017, 208, 92-100.	2.2	180
30	Safety and technique of ferumoxytol administration for MRI. Magnetic Resonance in Medicine, 2016, 75, 2107-2111.	3.0	171
31	Magnetic Resonance Imaging Quantification of Liver Iron. Magnetic Resonance Imaging Clinics of North America, 2010, 18, 359-381.	1.1	170
32	Advanced MRI Methods for Assessment of Chronic Liver Disease. American Journal of Roentgenology, 2009, 193, 14-27.	2.2	169
33	Effect of Multipeak Spectral Modeling of Fat for Liver Iron and Fat Quantification: Correlation of Biopsy with MR Imaging Results. Radiology, 2012, 265, 133-142.	7.3	169
34	Combination of complexâ€based and magnitudeâ€based multiecho waterâ€fat separation for accurate quantification of fatâ€fraction. Magnetic Resonance in Medicine, 2011, 66, 199-206.	3.0	166
35	Evaluation for Myocarditis in Competitive Student Athletes Recovering From Coronavirus Disease 2019 With Cardiac Magnetic Resonance Imaging. JAMA Cardiology, 2021, 6, 945.	6.1	161
36	Repeatability of magnetic resonance elastography for quantification of hepatic stiffness. Journal of Magnetic Resonance Imaging, 2010, 31, 725-731.	3.4	145

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37	4D cardiovascular magnetic resonance velocity mapping of alterations of right heart flow patterns and main pulmonary artery hemodynamics in tetralogy of Fallot. Journal of Cardiovascular Magnetic Resonance, 2012, 14, 16.	3.3	129
38	Quantitative magnetic resonance imaging of hepatic steatosis: Validation in ex vivo human livers. Hepatology, 2015, 62, 1444-1455.	7.3	128
39	MR imaging of articular cartilage at 1.5T and 3.0T: Comparison of SPGR and SSFP sequences. Osteoarthritis and Cartilage, 2005, 13, 338-344.	1.3	124
40	Hepatobiliary MR imaging with gadoliniumâ€based contrast agents. Journal of Magnetic Resonance Imaging, 2012, 35, 492-511.	3.4	121
41	Multipeak fatâ€corrected complex R2* relaxometry: Theory, optimization, and clinical validation. Magnetic Resonance in Medicine, 2013, 70, 1319-1331.	3.0	115
42	Pancreatic Steatosis Demonstrated at MR Imaging in the General Population: Clinical Relevance. Radiology, 2015, 276, 129-136.	7.3	113
43	Fast ²³ Na Magnetic Resonance Imaging of Acute Reperfused Myocardial Infarction. Circulation, 1997, 95, 1877-1885.	1.6	109
44	Proton-density fat fraction and simultaneous R2* estimation as an MRI tool for assessment of osteoporosis. European Radiology, 2013, 23, 3432-3439.	4.5	106
45	Addressing phase errors in fatâ€water imaging using a mixed magnitude/complex fitting method. Magnetic Resonance in Medicine, 2012, 67, 638-644.	3.0	105
46	Dermal white adipose tissue: a new component of the thermogenic response. Journal of Lipid Research, 2015, 56, 2061-2069.	4.2	104
47	Diagnosis of Coronavirus Disease 2019 Pneumonia by Using Chest Radiography: Value of Artificial Intelligence. Radiology, 2021, 298, E88-E97.	7.3	102
48	Multisite, multivendor validation of the accuracy and reproducibility of proton-density fat-fraction quantification at 1.5T and 3T using a fat-water phantom. Magnetic Resonance in Medicine, 2017, 77, 1516-1524.	3.0	99
49	Quantitative susceptibility mapping in the abdomen as an imaging biomarker of hepatic iron overload. Magnetic Resonance in Medicine, 2015, 74, 673-683.	3.0	98
50	In vivo validation of 4D flow MRI for assessing the hemodynamics of portal hypertension. Journal of Magnetic Resonance Imaging, 2013, 37, 1100-1108.	3.4	93
51	Leastâ€squares chemical shift separation for ¹³C metabolic imaging. Journal of Magnetic Resonance Imaging, 2007, 26, 1145-1152.	3.4	91
52	Prevalence of Fatty Liver Disease and Hepatic Iron Overload in a Northeastern German Population by Using Quantitative MR Imaging. Radiology, 2017, 284, 706-716.	7.3	91
53	Sonography in Primary Hyperparathyroidism. Journal of Ultrasound in Medicine, 2002, 21, 539-552.	1.7	90
54	Cardiac MRI of ischemic heart disease at 3T: Potential and challenges. European Journal of Radiology, 2008, 65, 15-28.	2.6	83

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55	Generalized kâ€space decomposition with chemical shift correction for nonâ€cartesian waterâ€fat imaging. Magnetic Resonance in Medicine, 2008, 59, 1151-1164.	3.0	81
56	R mapping in the presence of macroscopic B₀ field variations. Magnetic Resonance in Medicine, 2012, 68, 830-840.	3.0	80
57	The influence of prior hamstring injury on lengthening muscle tissue mechanics. Journal of Biomechanics, 2010, 43, 2254-2260.	2.1	79
58	Cardiovascular Magnetic Resonance for Patients With COVID-19. JACC: Cardiovascular Imaging, 2022, 15, 685-699.	5.3	79
59	Independent estimation ofT*₂for water and fat for improved accuracy of fat quantification. Magnetic Resonance in Medicine, 2010, 63, 849-857.	3.0	78
60	Quantitative chemical shift-encoded MRI is an accurate method to quantify hepatic steatosis. Journal of Magnetic Resonance Imaging, 2014, 39, 1494-1501.	3.4	78
61	Value of MRI in medicine: More than just another test?. Journal of Magnetic Resonance Imaging, 2019, 49, e14-e25.	3.4	78
62	An Investigation of Transient Severe Motion Related to Gadoxetic Acidâ€“enhanced MR Imaging. Radiology, 2016, 279, 93-102.	7.3	77
63	Quantification of Liver Fat Content with CT and MRI: State of the Art. Radiology, 2021, 301, 250-262.	7.3	77
64	Multi-echo segmented k-space imaging: An optimized hybrid sequence for ultrafast cardiac imaging. Magnetic Resonance in Medicine, 1999, 41, 375-385.	3.0	74
65	Rapid MR Imaging of Articular Cartilage with Steady-State Free Precession and Multipoint Fat-Water Separation. American Journal of Roentgenology, 2003, 180, 357-362.	2.2	74
66	Waterâ€“fat separation with bipolar multiecho sequences. Magnetic Resonance in Medicine, 2008, 60, 198-209.	3.0	73
67	Quantification of Liver Fat Content With Unenhanced MDCT: Phantom and Clinical Correlation With MRI Proton Density Fat Fraction. American Journal of Roentgenology, 2018, 211, W151-W157.	2.2	73
68	Quantification of Hepatic Steatosis With Dual-Energy Computed Tomography. Investigative Radiology, 2012, 47, 603-610.	6.2	72
69	Homodyne reconstruction and IDEAL water-fat decomposition. Magnetic Resonance in Medicine, 2005, 54, 586-593.	3.0	71
70	Cardiac CINE MR imaging with a 32-channel cardiac coil and parallel imaging: Impact of acceleration factors on image quality and volumetric accuracy. Journal of Magnetic Resonance Imaging, 2006, 23, 222-227.	3.4	71
71	Quantification of Hepatic Steatosis with 3-T MR Imaging: Validation inob/obMice. Radiology, 2010, 254, 119-128.	7.3	71
72	Articular Cartilage of the Knee: Rapid Three-dimensional MR Imaging at 3.0 T with IDEAL Balanced Steady-State Free Precessionâ€”Initial Experience. Radiology, 2006, 240, 546-551.	7.3	70

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73	Body MRI Using IDEAL. American Journal of Roentgenology, 2008, 190, 1076-1084.	2.2	70
74	Characterization of hepatic adenoma and focal nodular hyperplasia with gadoxetic acid. Journal of Magnetic Resonance Imaging, 2012, 36, 686-696.	3.4	70
75	Quantitative Imaging Biomarkers of NAFLD. Digestive Diseases and Sciences, 2016, 61, 1337-1347.	2.3	70
76	Effects of water exchange on the measurement of myocardial perfusion using paramagnetic contrast agents. Magnetic Resonance in Medicine, 1999, 41, 334-342.	3.0	68
77	Natural History of Hepatic Steatosis: Observed Outcomes for Subsequent Liver and Cardiovascular Complications. American Journal of Roentgenology, 2014, 202, 752-758.	2.2	68
78	Standardized Approach for ROI-Based Measurements of Proton Density Fat Fraction and R2* in the Liver. American Journal of Roentgenology, 2017, 209, 592-603.	2.2	68
79	IDEAL Imaging of the Musculoskeletal System: Robust Waterâ€“Fat Separation for Uniform Fat Suppression, Marrow Evaluation, and Cartilage Imaging. American Journal of Roentgenology, 2007, 189, W284-W291.	2.2	67
80	Reproducibility of MRâ€based liver fat quantification across field strength: Sameâ€day comparison between 1.5T and 3T in obese subjects. Journal of Magnetic Resonance Imaging, 2015, 42, 811-817.	3.4	67
81	Time-Resolved Interventional Cardiac C-arm Cone-Beam CT: An Application of the PICCS Algorithm. IEEE Transactions on Medical Imaging, 2012, 31, 907-923.	8.9	66
82	Endovascular Abdominal Aortic Aneurysm Repair: Nonenhanced Volumetric CT for Follow-up. Radiology, 2009, 253, 253-262.	7.3	63
83	Phase and amplitude correction for multiâ€echo waterâ€“fat separation with bipolar acquisitions. Journal of Magnetic Resonance Imaging, 2010, 31, 1264-1271.	3.4	63
84	Noninvasive temperature mapping with MRI using chemical shift waterâ€fat separation. Magnetic Resonance in Medicine, 2010, 63, 1238-1246.	3.0	63
85	Presurgical Localization of the Artery of Adamkiewicz with Time-resolved 3.0-T MR Angiography. Radiology, 2010, 255, 873-881.	7.3	62
86	Cardiac CINE imaging with IDEAL water-fat separation and steady-state free precession. Journal of Magnetic Resonance Imaging, 2005, 22, 44-52.	3.4	61
87	Effectiveness of MR angiography for the primary diagnosis of acute pulmonary embolism: Clinical outcomes at 3 months and 1 year. Journal of Magnetic Resonance Imaging, 2013, 38, 914-925.	3.4	61
88	MRIâ€based quantitative susceptibility mapping (QSM) and R2* mapping of liver iron overload: Comparison with SQUIDâ€based biomagnetic liver susceptometry. Magnetic Resonance in Medicine, 2017, 78, 264-270.	3.0	61
89	Relaxivity of Ferumoxytol at 1.5 T and 3.0 T. Investigative Radiology, 2018, 53, 257-263.	6.2	61
90	ACR guidance document on MR safe practices: Updates and critical information 2019. Journal of Magnetic Resonance Imaging, 2020, 51, 331-338.	3.4	61

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91	Phase-Sensitive Inversion Recovery (PSIR) Single-Shot TrueFISP for Assessment of Myocardial Infarction at 3 Tesla. Investigative Radiology, 2006, 41, 148-153.	6.2	59
92	Blood oxygenation dependence oft1 andt2 in the isolated, perfused rabbit heart at 4.7t. Magnetic Resonance in Medicine, 1995, 34, 623-627.	3.0	58
93	Quantification and reduction of ghosting artifacts in interleaved echo-planar imaging. Magnetic Resonance in Medicine, 1997, 38, 429-439.	3.0	56
94	Noninvasive Assessment of Transstenotic Pressure Gradients in Porcine Renal Artery Stenoses by Using Vastly Undersampled Phase-Contrast MR Angiography. Radiology, 2011, 261, 266-273.	7.3	56
95	Presurgical Localization of Parathyroid Adenomas with Magnetic Resonance Imaging at 3.0 T: An Adjunct Method to Supplement Traditional Imaging. Annals of Surgical Oncology, 2012, 19, 981-989.	1.5	56
96	On the confounding effect of temperature on chemical shiftâ€encoded fat quantification. Magnetic Resonance in Medicine, 2014, 72, 464-470.	3.0	56
97	Referenceless interleaved echo-planar imaging. Magnetic Resonance in Medicine, 1999, 41, 87-94.	3.0	55
98	3.0-T Evaluation of Knee Cartilage by Using Three-Dimensional IDEAL GRASS Imaging: Comparison with Fast Spin-Echo Imaging. Radiology, 2010, 255, 117-127.	7.3	55
99	Optimized highâ€resolution contrastâ€enhanced hepatobiliary imaging at 3 tesla: A crossâ€over comparison of gadobenate dimeglumine and gadoxetic acid. Journal of Magnetic Resonance Imaging, 2011, 34, 585-594.	3.4	55
100	Effects of Inhaled Fluticasone on Upper Airway during Sleep and Wakefulness in Asthma: A Pilot Study. Journal of Clinical Sleep Medicine, 2014, 10, 183-193.	2.6	54
101	Proton density fat-fraction is an accurate biomarker of hepatic steatosis in adolescent girls and young women. European Radiology, 2015, 25, 2921-2930.	4.5	54
102	The effect of high performance gradients on fast gradient echo imaging. Magnetic Resonance in Medicine, 1994, 32, 612-621.	3.0	52
103	Sensitivity of chemical shiftâ€encoded fat quantification to calibration of fat MR spectrum. Magnetic Resonance in Medicine, 2016, 75, 845-851.	3.0	52
104	A magnetization-driven gradient echo pulse sequence for the study of myocardial perfusion. Magnetic Resonance in Medicine, 1995, 34, 276-282.	3.0	51
105	Renal Arteries: Isotropic, High-Spatial-Resolution, Unenhanced MR Angiography with Three-dimensional Radial Phase Contrast. Radiology, 2011, 258, 254-260.	7.3	51
106	High resolution navigated threeâ€dimensional T₁â€weighted hepatobiliary MRI using gadoxetic acid optimized for 1.5 tesla. Journal of Magnetic Resonance Imaging, 2012, 36, 890-899.	3.4	51
107	T1- and T2-weighted fast spin-echo imaging of the brachial plexus and cervical spine with IDEAL waterâ€“fat separation. Journal of Magnetic Resonance Imaging, 2006, 24, 825-832.	3.4	50
108	Fourâ€dimensional velocity mapping of the hepatic and splanchnic vasculature with radial sampling at 3 tesla: A feasibility study in portal hypertension. Journal of Magnetic Resonance Imaging, 2011, 34, 577-584.	3.4	50

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109	Advanced Cardiac MR Imaging of Ischemic Heart Disease. Radiographics, 2001, 21, 1047-1074.	3.3	49
110	Signal-to-noise ratio behavior of steady-state free precession. Magnetic Resonance in Medicine, 2004, 52, 123-130.	3.0	48
111	Impaired regulation of portal venous flow in response to a meal challenge as quantified by 4D flow MRI. Journal of Magnetic Resonance Imaging, 2015, 42, 1009-1017.	3.4	48
112	Myocarditis Associated with mRNA COVID-19 Vaccination. Radiology, 2021, 301, E409-E411.	7.3	48
113	Comparison of R₂* correction methods for accurate fat quantification in fatty liver. Journal of Magnetic Resonance Imaging, 2013, 37, 414-422.	3.4	47
114	Effects of postprandial state and mesenteric blood flow on the repeatability of MR elastography in asymptomatic subjects. Journal of Magnetic Resonance Imaging, 2011, 33, 239-244.	3.4	46
115	Hepatobiliary MR contrast agents in hypovascular hepatocellular carcinoma. Journal of Magnetic Resonance Imaging, 2015, 41, 251-265.	3.4	46
116	Intravenous Gadoxetate Disodium Administration Reduces Breath-holding Capacity in the Hepatic Arterial Phase: A Multi-Center Randomized Placebo-controlled Trial. Radiology, 2017, 282, 361-368.	7.3	46
117	How bariatric surgery affects liver volume and fat density in NAFLD patients. Surgical Endoscopy and Other Interventional Techniques, 2018, 32, 1675-1682.	2.4	46
118	Clinical Usefulness of Adding 3D Cartilage Imaging Sequences to a Routine Knee MR Protocol. American Journal of Roentgenology, 2011, 196, 159-167.	2.2	45
119	On the performance of T₂* correction methods for quantification of hepatic fat content. Magnetic Resonance in Medicine, 2012, 67, 389-404.	3.0	44
120	Quantification of Thoracic Blood Flow Using Volumetric Magnetic Resonance Imaging With Radial Velocity Encoding. Investigative Radiology, 2013, 48, 819-825.	6.2	44
121	Effect of flip angle on the accuracy and repeatability of hepatic proton density fat fraction estimation by complex dataâ€based, T1â€independent, T2*â€corrected, spectrumâ€modeled MRI. Journal of Magnetic Resonance Imaging, 2014, 39, 440-447.	3.4	43
122	Gadoxetate-enhanced abbreviated MRI is highly accurate for hepatocellular carcinoma screening. European Radiology, 2020, 30, 6003-6013.	4.5	43
123	Cardiac Steady-State Free Precession CINE Magnetic Resonance Imaging at 3.0 Tesla. Investigative Radiology, 2006, 41, 141-147.	6.2	42
124	Iterative Decomposition of Water and Fat with Echo Asymmetry and Least-Squares Estimation (IDEAL) Fast Spin-Echo Imaging of the Ankle: Initial Clinical Experience. American Journal of Roentgenology, 2006, 187, 1442-1447.	2.2	42
125	Improved least squares MR image reconstruction using estimates of kâ€Space data consistency. Magnetic Resonance in Medicine, 2012, 67, 1600-1608.	3.0	42
126	Variations in T2* and fat content of murine brown and white adipose tissues by chemical-shift MRI. Magnetic Resonance Imaging, 2012, 30, 323-329.	1.8	42

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127	Emerging quantitative magnetic resonance imaging biomarkers of hepatic steatosis. Hepatology, 2013, 58, 1877-1880.	7.3	42
128	Cytochrome P450 1B1: An unexpected modulator of liver fatty acid homeostasis. Archives of Biochemistry and Biophysics, 2015, 571, 21-39.	3.0	42
129	High-Resolution 3D Cartilage Imaging with IDEALâ€“SPGR at 3 T. American Journal of Roentgenology, 2007, 189, 1510-1515.	2.2	41
130	Validation of MRI biomarkers of hepatic steatosis in the presence of iron overload in the ob/ob mouse. Journal of Magnetic Resonance Imaging, 2012, 35, 844-851.	3.4	41
131	Adipose tissue MRI for quantitative measurement of central obesity. Journal of Magnetic Resonance Imaging, 2013, 37, 707-716.	3.4	41
132	Longitudinal Monitoring of Hepatic Blood Flow before and after TIPS by Using 4D-Flow MR Imaging. Radiology, 2016, 281, 574-582.	7.3	41
133	Liver fat quantification: where do we stand?. Abdominal Radiology, 2020, 45, 3386-3399.	2.1	41
134	R2* estimation using â€œinâ€phaseâ€•echoes in the presence of fat: The effects of complex spectrum of fat. Journal of Magnetic Resonance Imaging, 2013, 37, 717-726.	3.4	40
135	Consensus report from the 6th International forum for liver MRI using gadoxetic acid. Journal of Magnetic Resonance Imaging, 2014, 40, 516-529.	3.4	40
136	Quantitative cardiac perfusion: a noninvasive spin-labeling method that exploits coronary vessel geometry.. Radiology, 1996, 200, 177-184.	7.3	39
137	Single acquisition water-fat separation: Feasibility study for dynamic imaging. Magnetic Resonance in Medicine, 2006, 55, 413-422.	3.0	39
138	Fat confounds the observed apparent diffusion coefficient in patients with hepatic steatosis. Magnetic Resonance in Medicine, 2013, 69, 545-552.	3.0	39
139	Emerging Applications of Abdominal 4D Flow MRI. American Journal of Roentgenology, 2016, 207, 58-66.	2.2	39
140	Diagnostic Accuracy of MRI Versus CT for the Evaluation of Acute Appendicitis in Children and Young Adults. American Journal of Roentgenology, 2017, 209, 911-919.	2.2	39
141	Quantification of liver fat in the presence of iron overload. Journal of Magnetic Resonance Imaging, 2017, 45, 428-439.	3.4	39
142	Linearity and Bias of Proton Density Fat Fraction as a Quantitative Imaging Biomarker: A Multicenter, Multiplatform, Multivendor Phantom Study. Radiology, 2021, 298, 640-651.	7.3	39
143	Improved delayed enhanced myocardial imaging with T₂â€Prep inversion recovery magnetization preparation. Journal of Magnetic Resonance Imaging, 2008, 28, 1280-1286.	3.4	38
144	T1 bias in chemical shiftâ€encoded liver fatâ€fraction: Role of the flip angle. Journal of Magnetic Resonance Imaging, 2014, 40, 875-883.	3.4	38

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145	Four-dimensional Flow MRI as a Marker for Risk Stratification of Gastroesophageal Varices in Patients with Liver Cirrhosis. Radiology, 2019, 290, 101-107.	7.3	38
146	Tag contrast in breath-hold CINE cardiac MRI. Magnetic Resonance in Medicine, 1994, 31, 521-525.	3.0	37
147	Magnetic susceptibility as a B ₀ field strength independent MRI biomarker of liver iron overload. Magnetic Resonance in Medicine, 2013, 70, 648-656.	3.0	36
148	Prospective Comparison of the Diagnostic Accuracy of MR Imaging versus CT for Acute Appendicitis. Radiology, 2018, 288, 467-475.	7.3	36
149	IDEAL-IQ in an oncologic population: meeting the challenge of concomitant liver fat and liver iron. Cancer Imaging, 2018, 18, 51.	2.8	36
150	Cartilage morphology at 3.0T: Assessment of threeâ€dimensional magnetic resonance imaging techniques. Journal of Magnetic Resonance Imaging, 2010, 32, 173-183.	3.4	35
151	Load-dependent variations in knee kinematics measured with dynamic MRI. Journal of Biomechanics, 2013, 46, 2045-2052.	2.1	35
152	Constraining the initial phase in waterâ€“fat separation. Magnetic Resonance Imaging, 2011, 29, 216-221.	1.8	34
153	Gadoxetic acidâ€“enhanced T1â€weighted MR cholangiography in primary sclerosing cholangitis. Journal of Magnetic Resonance Imaging, 2012, 36, 632-640.	3.4	34
154	Longitudinal Changes in Liver Fat Content in Asymptomatic Adults: Hepatic Attenuation on Unenhanced CT as an Imaging Biomarker for Steatosis. American Journal of Roentgenology, 2015, 205, 1167-1172.	2.2	34
155	Systematic review and metaâ€analysis of the accuracy of MRI to diagnose appendicitis in the general population. Journal of Magnetic Resonance Imaging, 2016, 43, 1346-1354.	3.4	34
156	Contrast enhanced pulmonary magnetic resonance angiography for pulmonary embolism: Building a successful program. European Journal of Radiology, 2016, 85, 553-563.	2.6	32
157	Multiecho IDEAL Gradient-Echo Water-Fat Separation for Rapid Assessment of Cartilage Volume at 1.5 T: Initial Experience. Radiology, 2009, 252, 561-567.	7.3	31
158	Increased volume of coverage for abdominal contrastâ€enhanced MR angiography with twoâ€dimensional autocalibrating parallel imaging: Initial experience at 3.0 Tesla. Journal of Magnetic Resonance Imaging, 2009, 30, 1093-1100.	3.4	30
159	Predicting Hepatic Steatosis in a Racially and Ethnically Diverse Cohort of Adolescent Girls. Journal of Pediatrics, 2014, 165, 319-325.e1.	1.8	30
160	Highâ€spatial and highâ€temporal resolution dynamic contrastâ€enhanced perfusion imaging of the liver with timeâ€resolved threeâ€dimensional radial MRI. Magnetic Resonance in Medicine, 2014, 71, 934-941.	3.0	29
161	The Impact of the COVID-19 Pandemic on the Radiology Research Enterprise: Radiology Scientific Expert Panel. Radiology, 2020, 296, E134-E140.	7.3	29
162	A novel object-independent ?balanced? reference scan for echo-planar imaging. Journal of Magnetic Resonance Imaging, 1999, 9, 847-852.	3.4	28

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163	Improved fat suppression using multipeak reconstruction for IDEAL chemical shift fatâ€water separation: Application with fast spin echo imaging. Journal of Magnetic Resonance Imaging, 2009, 29, 436-442.	3.4	28
164	T₂â€weighted 3D fast spin echo imaging with waterâ€“fat separation in a single acquisition. Journal of Magnetic Resonance Imaging, 2010, 32, 745-751.	3.4	28
165	Effect of temporal resolution on 4D flow MRI in the portal circulation. Journal of Magnetic Resonance Imaging, 2014, 39, 819-826.	3.4	28
166	Pulmonary Embolism Detection with Three-dimensional Ultrashort Echo Time MR Imaging: Experimental Study in Canines. Radiology, 2016, 278, 413-421.	7.3	28
167	Non-contrast-enhanced MRA of renal artery stenosis: validation against DSA in a porcine model. European Radiology, 2016, 26, 547-555.	4.5	28
168	Balanced SSFP imaging of the musculoskeletal system. Journal of Magnetic Resonance Imaging, 2007, 25, 270-278.	3.4	27
169	Simultaneous estimation of tongue volume and fat fraction using IDEALâ€FSE. Journal of Magnetic Resonance Imaging, 2008, 28, 504-508.	3.4	27
170	Improving chemical shift encoded waterâ€“fat separation using objectâ€based information of the magnetic field inhomogeneity. Magnetic Resonance in Medicine, 2015, 73, 597-604.	3.0	27
171	MRI proton density fat fraction is robust across the biologically plausible range of triglyceride spectra in adults with nonalcoholic steatohepatitis. Journal of Magnetic Resonance Imaging, 2018, 47, 995-1002.	3.4	27
172	Steady-State Free Precession MR Imaging: Improved Myocardial Tag Persistence and Signal-to-Noise Ratio for Analysis of Myocardial Motion. Radiology, 2004, 230, 852-861.	7.3	26
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345	Editorial for â€œBias, Repeatability and Reproducibility of Liver <scp>T1</scp> Mapping With Variable Flip Anglesâ€. Journal of Magnetic Resonance Imaging, 2022, 56, 1053-1054.	3.4	0
346	Determining Biomarkers of Myosteatosis for Sarcopenia and Cachexia Using MRI and Ultrasound. FASEB Journal, 2022, 36, .	0.5	0